

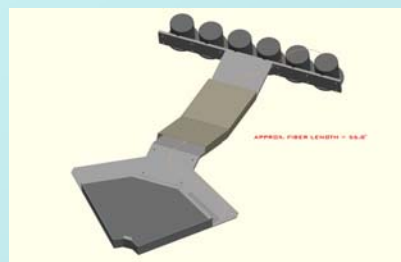
# **PHENIX WEEKLY PLANNING**

5/11/06

Don Lynch

# This Week

- HBD Prototype Electronics
- No access
- Run support detector maintenance and adjustments
- HBD cable management
- Mold remediation



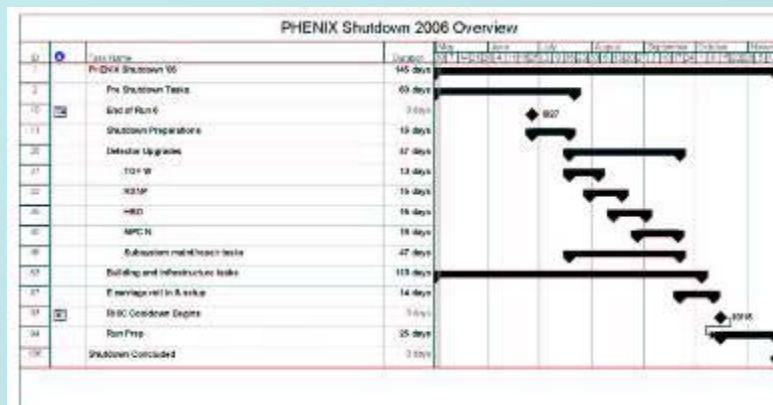
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# PHENIX Shutdown Overview



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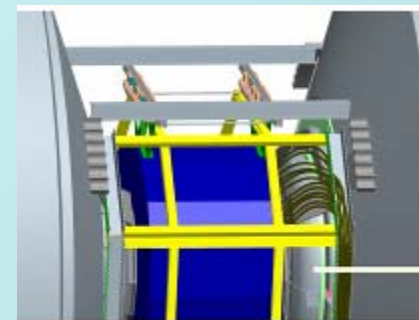
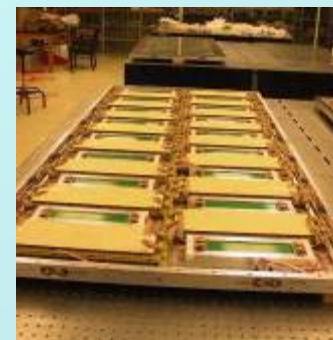
Task_Name	Duration	Start_Date	Finish_Date
<b>PHENIX Shutdown '06</b>	145 days	5/1/2006	11/17/2006
<b>Pre Shutdown Tasks</b>	60 days	5/1/2006	7/21/2006
<b>End of Run 6</b>	0 days	6/27/2006	6/27/2006
<b>Shutdown Preparations</b>	16 days	6/27/2006	7/18/2006
<b>Detector Upgrades</b>	47 days	7/19/2006	9/21/2006
<b>Planned electrical power outage</b>	5 days	7/24/2006	7/28/2006
<b>Subsystem maint/repair tasks</b>	47 days	7/19/2006	9/21/2006
<b>Building and infrastructure tasks</b>	113 days	5/1/2006	10/4/2006
<b>E carriage roll in &amp; setup</b>	14 days	9/22/2006	10/11/2006
<b>RHIC Cooldown Begins</b>	0 days	10/16/2006	10/16/2006
<b>Run Prep</b>	25 days	10/16/2006	11/17/2006
<b>Shutdown Concluded</b>	0 days	11/17/2006	11/17/2006



# Detector Upgrades

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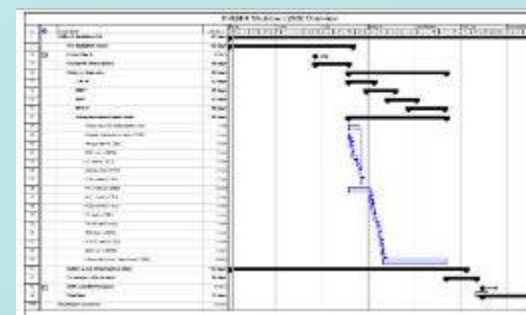
<b>TOF W</b>	13 days	7/19/2006	8/4/2006
Prepare installation Fixtures	2 days	7/19/2006	7/20/2006
Mockup test installation	1 day	7/21/2006	7/21/2006
TOF Mechanical installation	2 days	7/31/2006	8/1/2006
TOF Electrical Installation	3 days	8/2/2006	8/4/2006
<b>RXNP</b>	15 days	7/31/2006	8/18/2006
Prepare for installation	5 days	7/31/2006	8/4/2006
Mechanical installation	5 days	8/7/2006	8/11/2006
Electrical installation	5 days	8/14/2006	8/18/2006
<b>HBD</b>	15 days	8/14/2006	9/1/2006
Prepare for installation	5 days	8/14/2006	8/18/2006
Mechanical installation	5 days	8/21/2006	8/25/2006
Electrical installation	5 days	8/28/2006	9/1/2006
<b>MPC N</b>	18 days	8/28/2006	9/20/2006
Move CM south	2 days	8/28/2006	8/29/2006
Prepare for installation	5 days	8/30/2006	9/5/2006
Mechanical installation	5 days	9/6/2006	9/12/2006
Electrical installation	5 days	9/13/2006	9/19/2006
Move CM North	1 day	9/20/2006	9/20/2006



# Subsystems

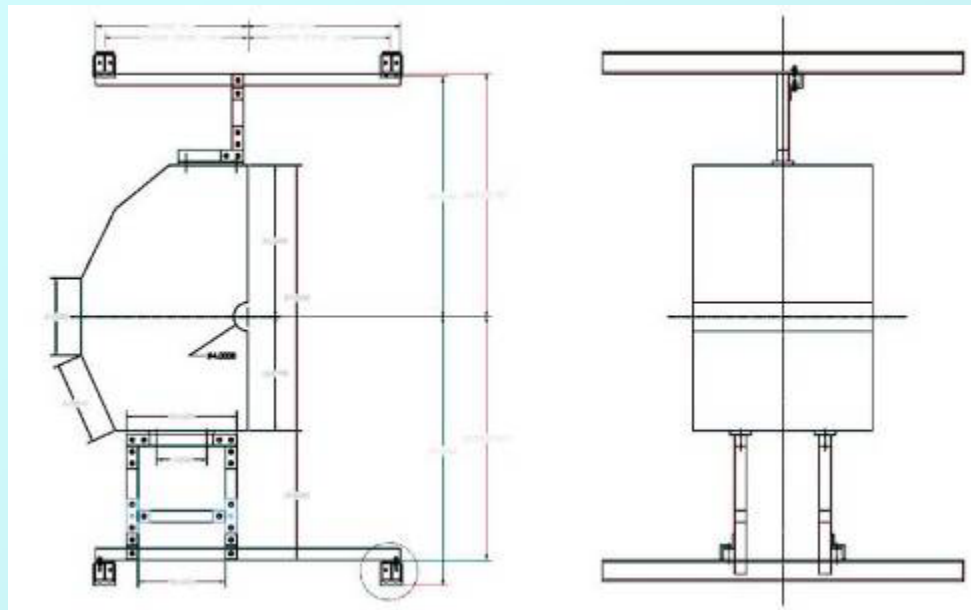
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<b>Subsystem maint/repair tasks</b>	47 days	7/19/2006	9/21/2006
Prepare EC for subsystems work	1 wk	7/19/2006	7/25/2006
Magnet subsystems tasks (TBD)	1 day	7/19/2006	7/19/2006
Aerogel tasks (TBD)	1 day	7/20/2006	7/20/2006
BBC tasks (TBD)	1 day	7/21/2006	7/21/2006
DC tasks (TBD)	1 day	7/24/2006	7/24/2006
EmCal tasks (TBD)	1 day	7/26/2006	7/26/2006
FCAL tasks (TBD)	1 day	7/27/2006	7/27/2006
MPC S tasks (TBD)	2 wks	7/19/2006	8/1/2006
MuTr tasks	60 eday	7/17/2006	9/17/2006
MuTr repairs	1 day	9/17/2006	9/17/2006
Remove lampshade	1 day	7/17/2006	7/17/2006
Install lampshade	1 day	9/17/2006	9/17/2006
MuID tasks (TBD)	1 day	8/3/2006	8/3/2006
PC tasks (TBD)	1 day	8/4/2006	8/4/2006
RICH tasks (TBD)	1 day	8/7/2006	8/7/2006
TEC tasks (TBD)	60 days	7/17/2006	9/21/2006
TOF E tasks (TBD)	1 day	8/9/2006	8/9/2006
ZDC tasks (TBD)	1 day	8/10/2006	8/10/2006
Other Subsystem tasks tasks (TBD)	6 wks	8/11/2006	9/21/2006





# HBD Prototype Run Position Mounting

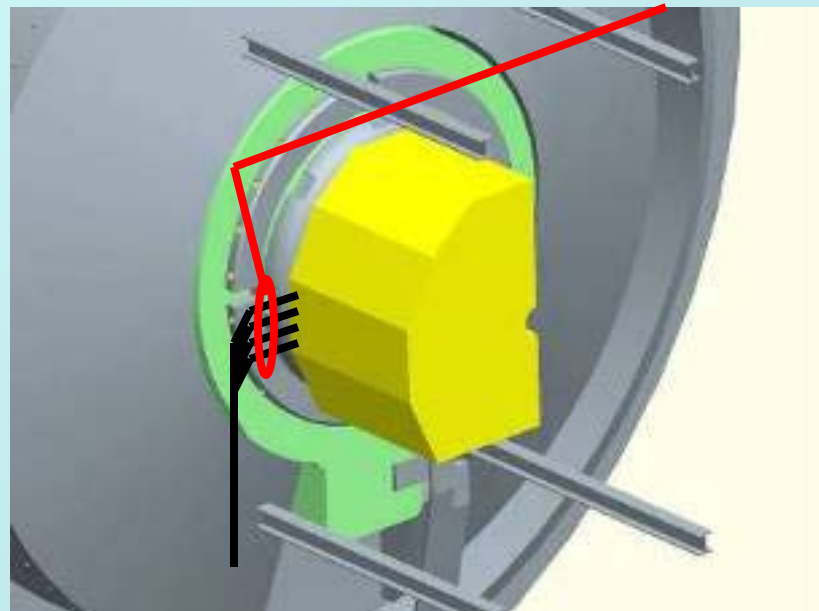


- East or West?
- Remove He Bag
- FG unistrut cross beams
- HBD cable strain relief
- Gas Connections

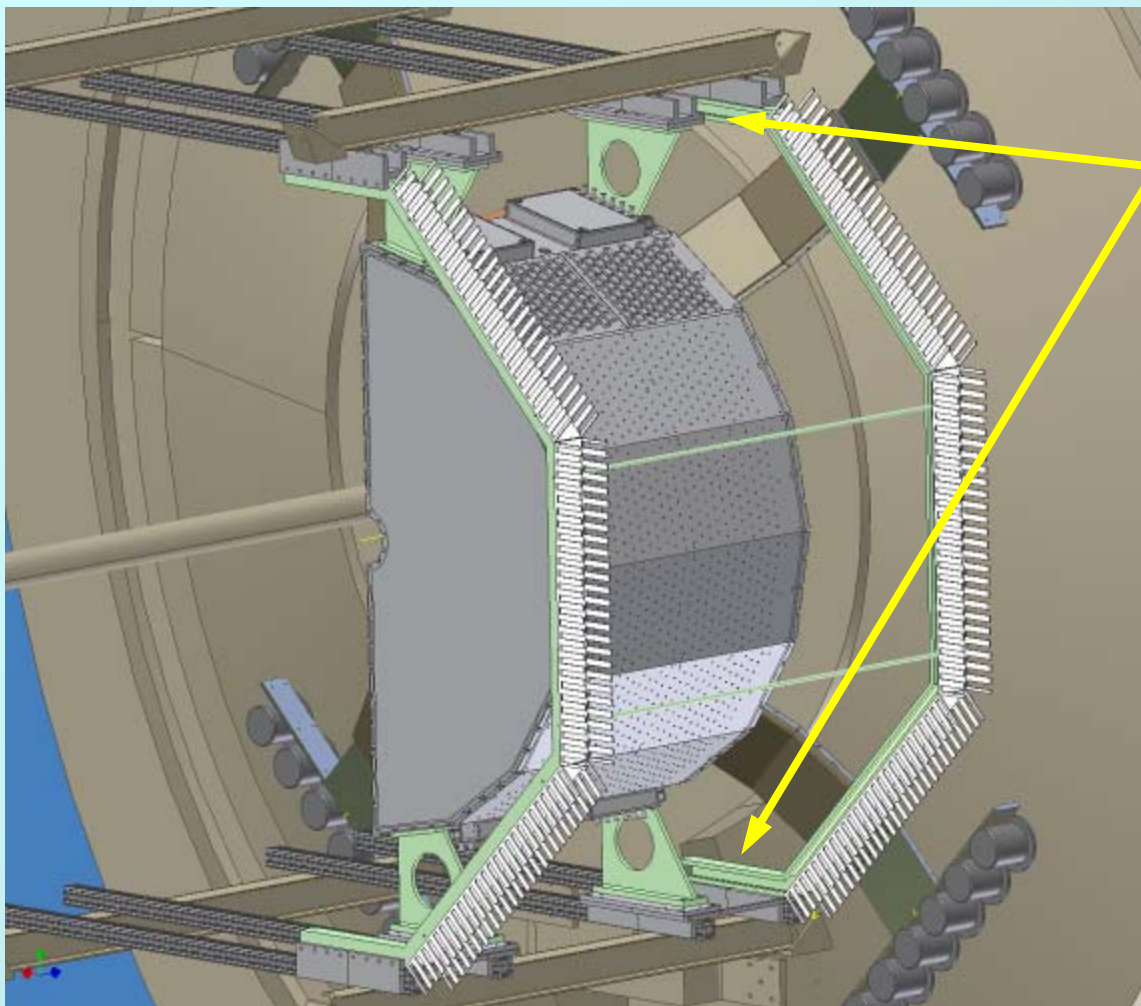


# Next Week

- Finish with HBD cable management scheme & send drawings to SB
- Move HBD to run position
- TOFW Hi Bay Exp. Safety Review
- Shutdown prep
- OSH/EMS Audit Forum
  - May 23, 25, June 1 2006



# HBD Cable Management & RXNP



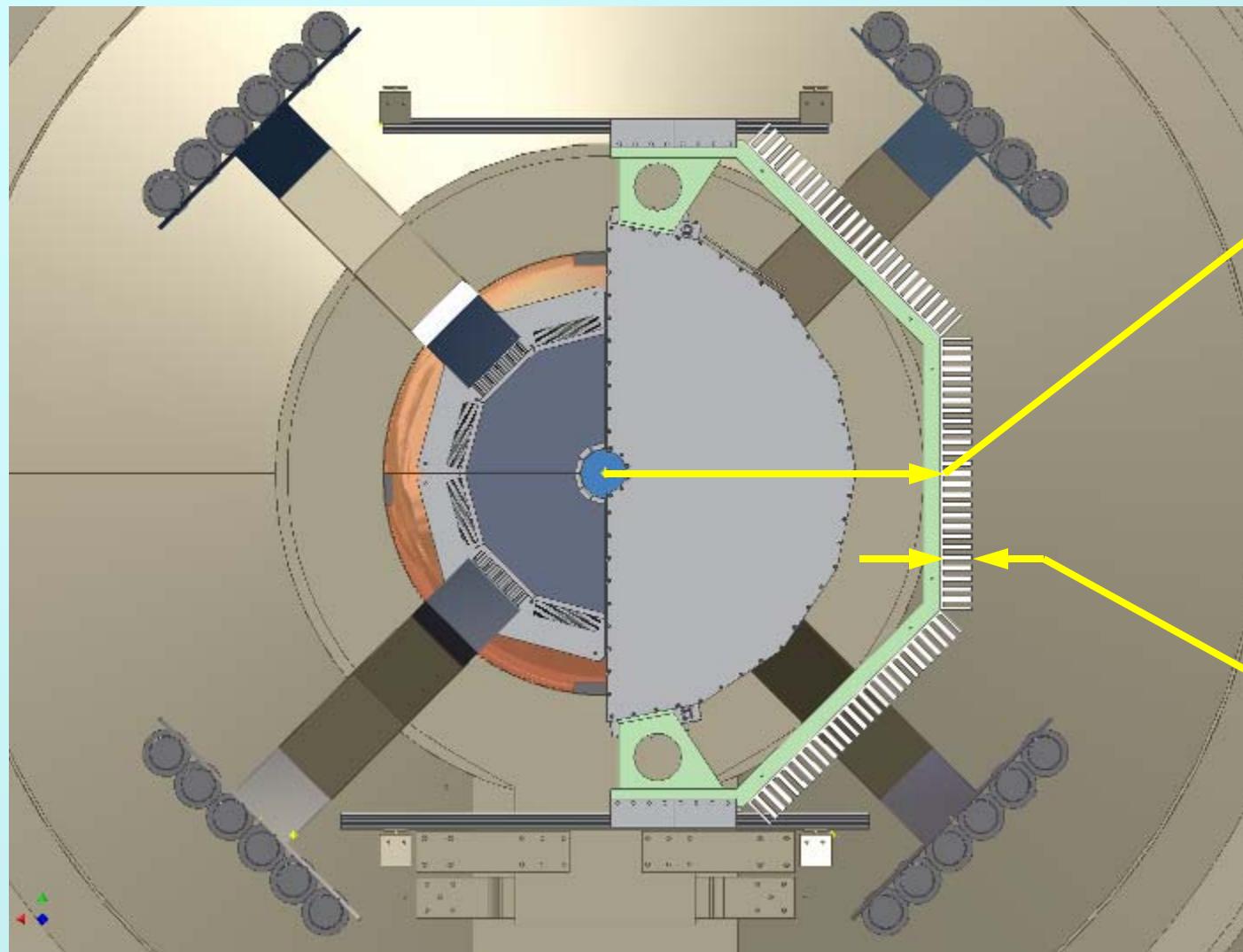
## Latest Iteration

- Separate mounting for HBD and Cable Trays, joined by handle for separating
- HBD can be unmounted without removing cable trays
- Cable trays ~entirely out of acceptance
- No interference with RXNP

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# HBD Cable Management & Support

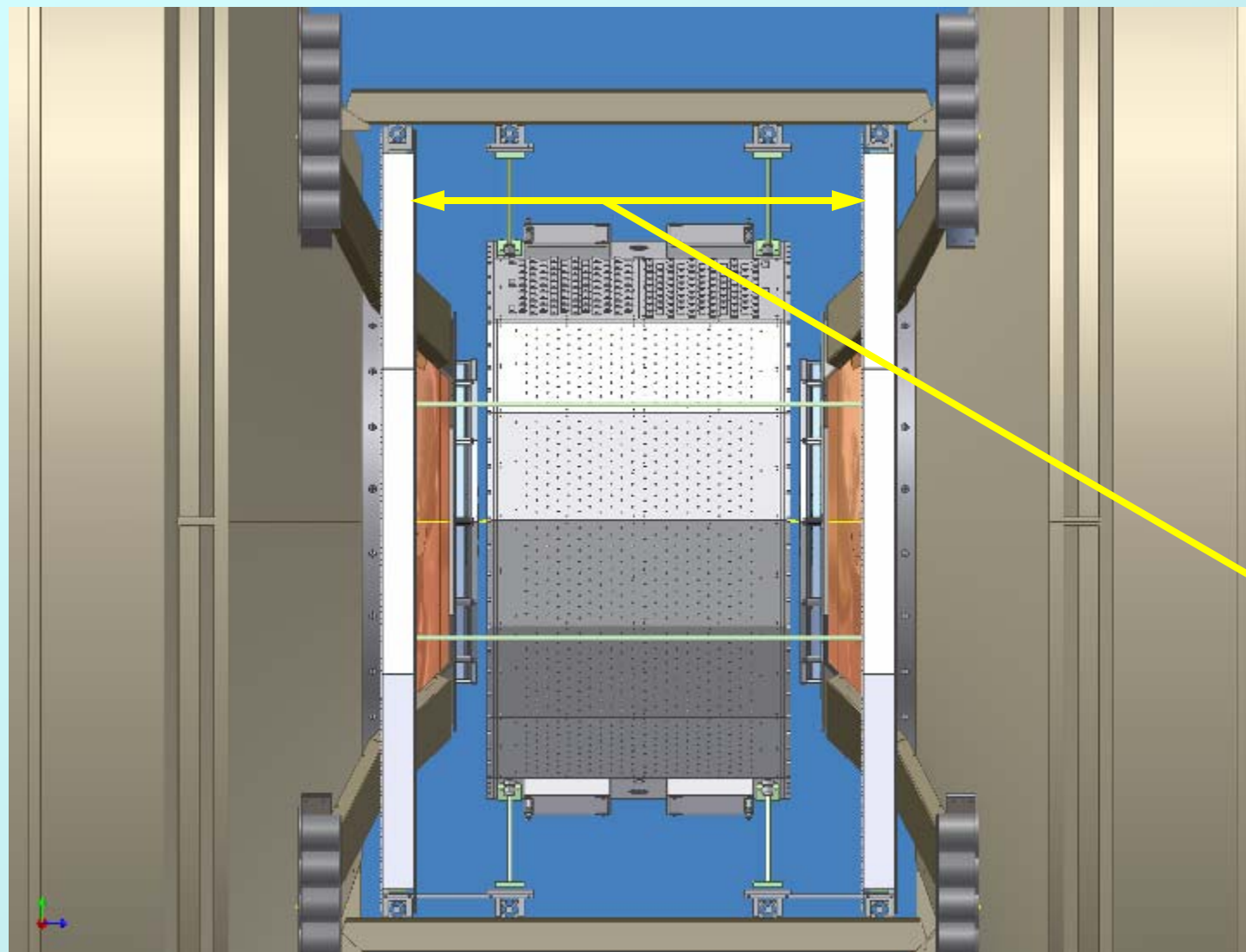


Cable Tray  
min radius:  
31.9"

3"

60022 + support - a - c - i - s - s - e - s - s - e - s

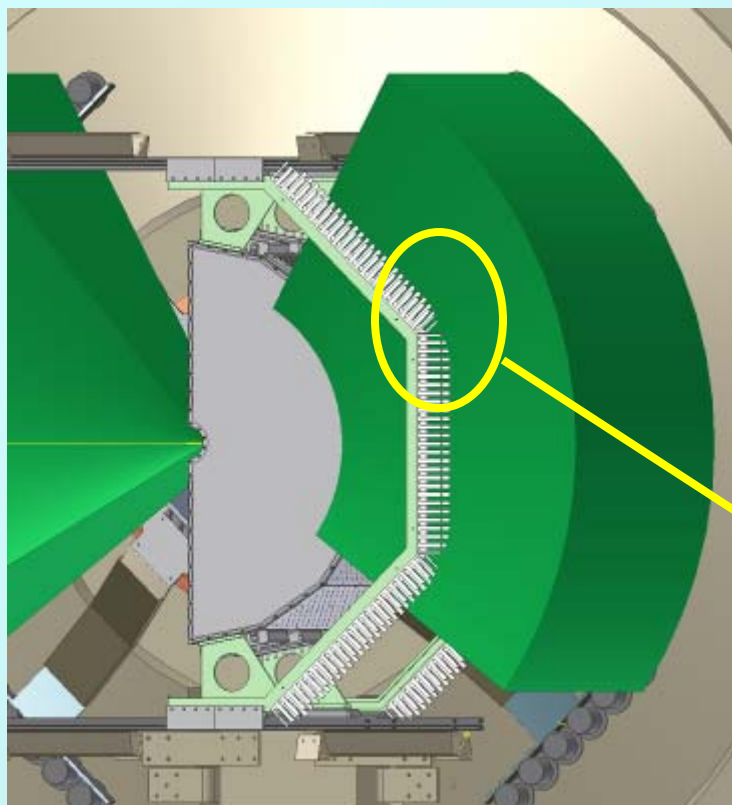
# HBD Cable Management & Support



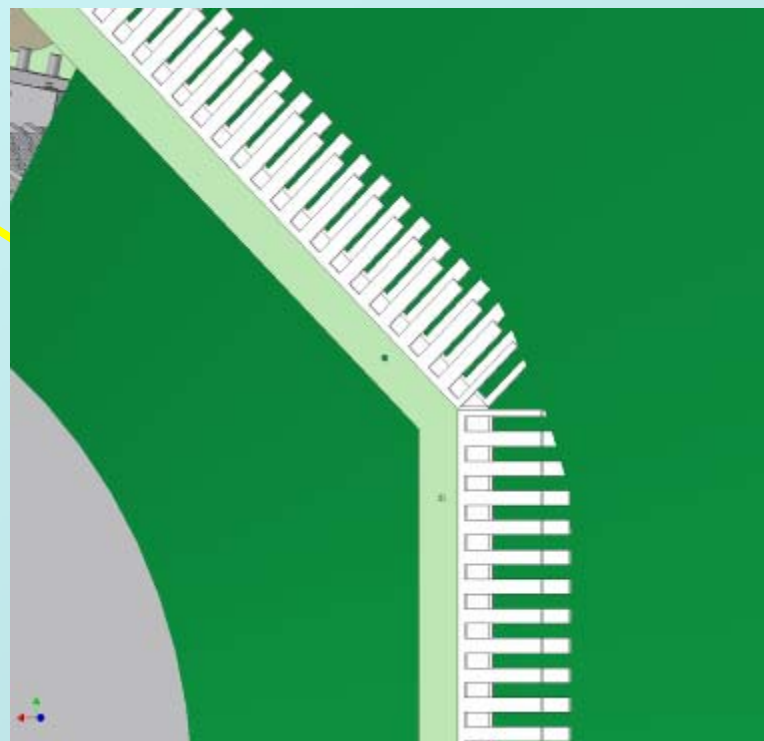
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# HBD Cable Management & Support

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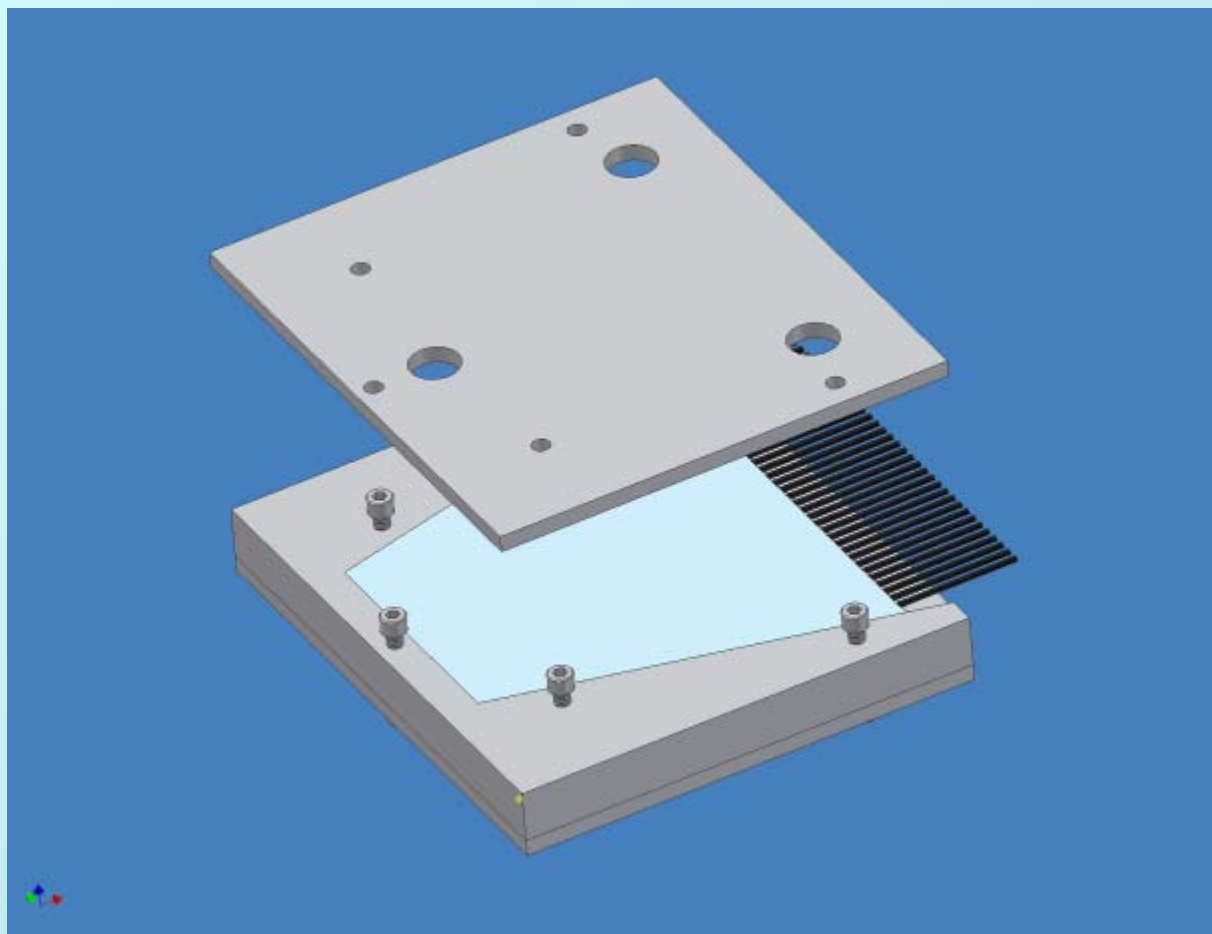
Acceptance:  $\pm 150$  mm from IP in z,  
70° radial off z revolved around z axis  
limited  $\pm 33.75^\circ$  vertically up  
and  $\pm 56.25^\circ$  vertically down



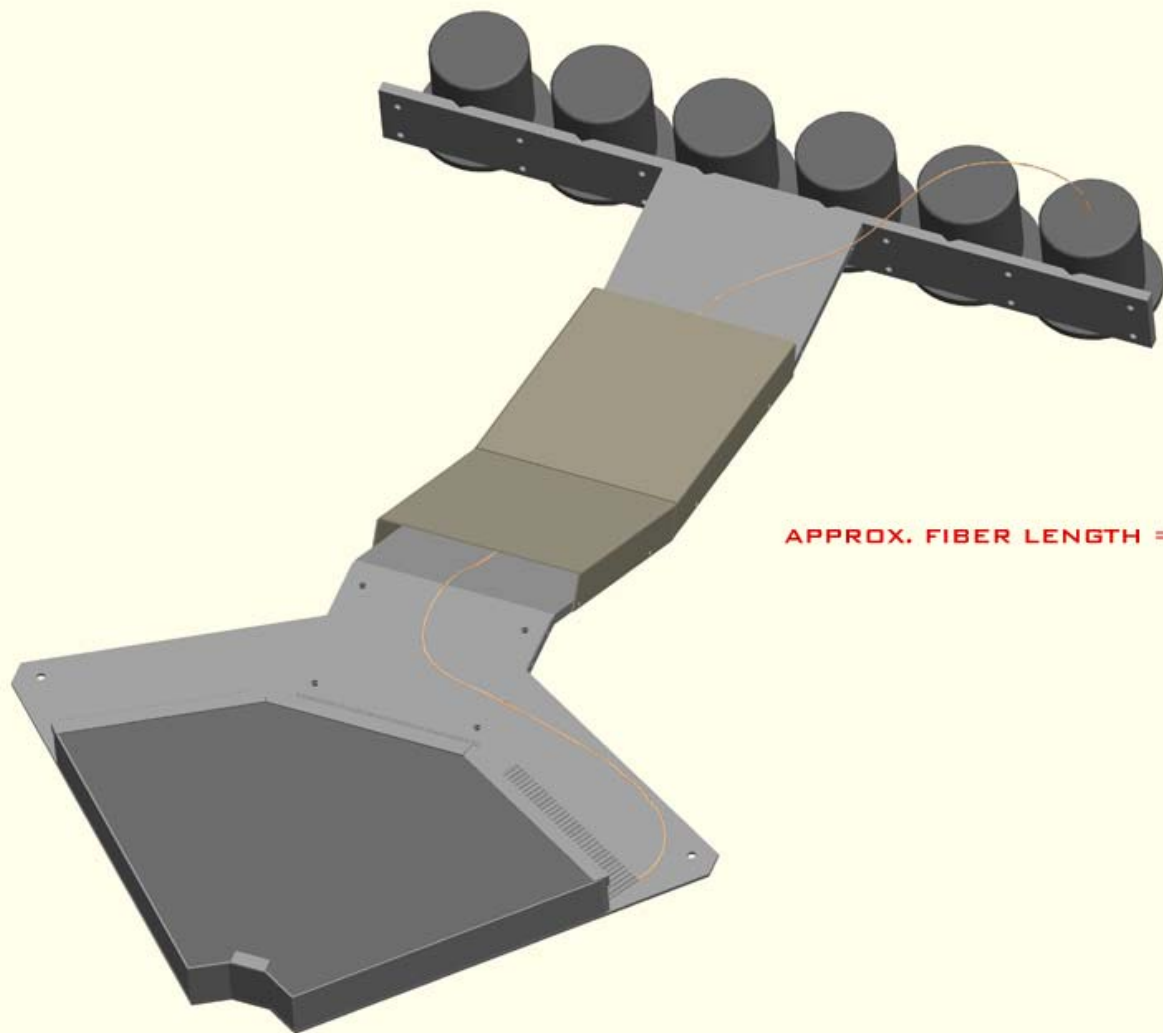
# Reaction Plane Detector (RXNP)

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- BNL Parts at CS
- Scintillator gauge sent to Japan
- Plan for 1 quadrant asap
- Design last 2 alum. Covers after fiber installed in 1<sup>st</sup> quad.
- Design Review June 15?



# Reaction Plane Detector (RXNP)

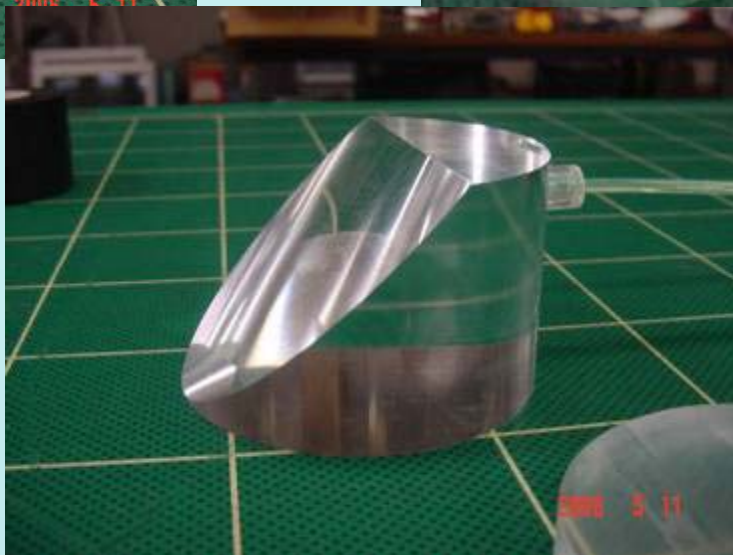
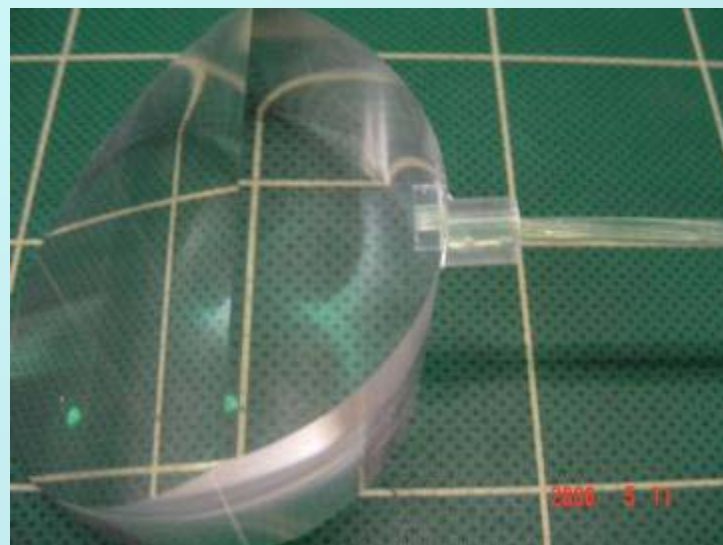


APPROX. FIBER LENGTH = 56.8"



# Reaction Plane Detector (RXNP)

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# Breaker Safety

Update on breaker analyses and equipment upgrade plans

Siemens Allis Low Voltage Air Circuit Breaker



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# Next Access Day

- Short Access (4hrs) for HBD move to run position
- Expect next full access day (8 hrs) to be May 31
- Subsystems must arrange for tech assistance prior to access day or don't expect assistance. (see Don Lynch or John Haggerty)
- PHENIX Techs only on CM lift platform unless accompanied by PHENIX Tech (Lift platform is locked and requires removal of C. Pearson tag out)
- Planned:
  - subsystem trouble shooting
  - HBD system tests
  - Misc. trouble shooting

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# Other Projects

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## TOF West

- Expect detectors to be at BNL by June 5. May want to change run location: split top and bottom between sector 1 and 2

## MPC North

- Design efforts ongoing at UI. Design review June 15.

## Muon RPC

- Nothing New

## Beampipe design

- Nothing new design concept in progress

## New CM Crane

- Nothing new

## Engineering Documentation

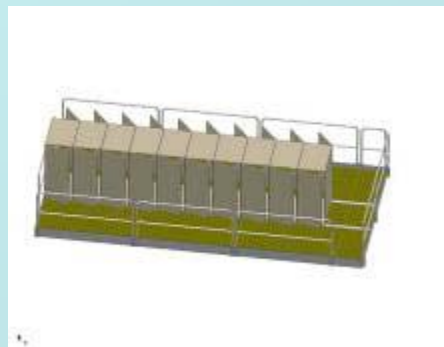
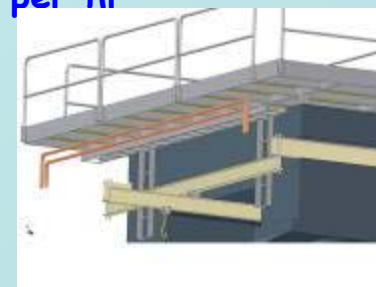
- Quote from AW Systems (Atlas database piggyback) \$5400 plus per hr

## Bridge Electronics

- Plan to stay at 9 racks?

## Pixel Ladder Tests

- Telescope won't be ready by June
- Postponed until run 7



# C-A Tasks

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## Current Tasks

- General run support/building services
- New storage trailer (as promised)
- Fix roof leaks
- HVAC troubleshooting/repair

## Tasks for Shutdown 2006

- See Shutdown schedule





# MOLD Remediation & More Crap

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# Shutdown 2006 key dates

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- Run ends June 26
- End of Run Party June 29
- Open Shield wall June 30
- Prep and move EC July 10
- Install TOF W (start) July 19
- **Lost week for planned electrical outage July 24-28**
- Install RXNP (start) July 31
- Install HBD (start no later than) Aug 14 (possibly as early as Aug 1)
- Install MPC North (start no later than) Aug 28
- Start EC roll in Sep. 22
- Start RHIC Cooldown Oct. 15
- Start Physics data taking Nov. 17

*Subsystems: Get requests for maintenance in early to get on the schedule*

# Where To Find PHENIX Technical Info

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Links for the shutdown schedule as well as weekly planning meeting slides, long term planning, pictures, videos and other technical info can be found from the web site:

[http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL\\_SSint-page.htm](http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm)

# Spotlight Awards

**SPOTLIGHT  
ON**  
Carter  
Biggs



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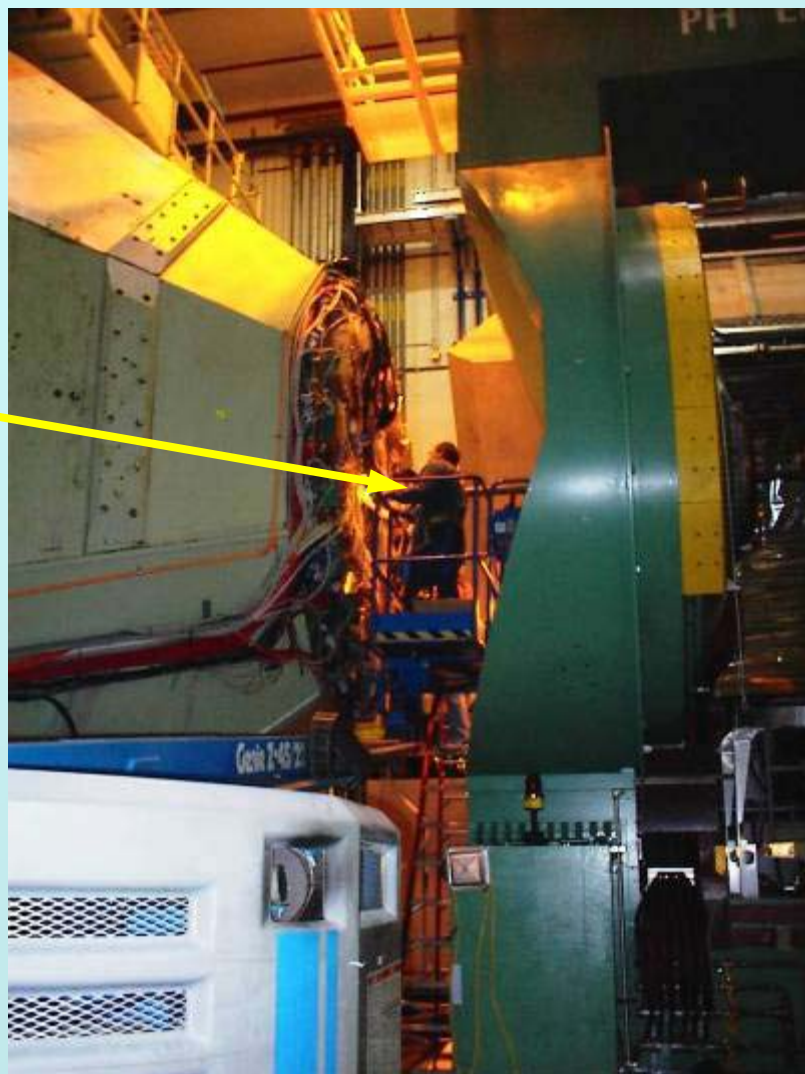




# Spotlight Awards

**SPOTLIGHT  
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Jim  
LaBounty



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